CLAIM LISTING

1. (original) A method for communicating between a base transceiver station and a mobile unit comprising the steps of:

transmitting a downlink signal burst from the base transceiver station to the mobile unit, the downlink signal burst containing a selected number of bits having a first time length; and

transmitting an uplink signal burst from the mobile unit to the base transceiver station, the uplink signal burst containing the selected number of bits having a second time length, and

wherein the first time length is shorter than the second time length thereby providing a guard time.

- 2. (original) The method as recited in claim 1 wherein the guard time is sufficient for the mobile unit to switch from transmit to receive mode.
- (original) The method as recited in claim 1 comprising the steps of: forming the downlink signal burst using a first modulation technique; and forming the uplink signal burst using a second modulation technique.
- 4. (original) The method as recited in claim 3 wherein the first modulation technique has a higher-order than the second modulation technique.
- 5. (original) The method as recited in claim 4 wherein the first modulation technique is quadrature amplitude modulation.
- 6. (original) The method as recited in claim 5 wherein the quadrature amplitude modulation is sixteen quadrature amplitude modulation.
- 7. (original) The method as recited in claim 6 wherein the second modulation technique is phase shift keying.

- 8. (original) The method as recited in claim 7 wherein the phase shift keying is quaternary phase shift keying.
- 9. (original) The method as recited in claim 5 wherein the second modulation technique is quadrature amplitude modulation.
- 10. (original) The method as recited in claim 9 wherein the second modulation technique is four quadrature amplitude modulation.
- 11. (original) The method as recited in claim 1 wherein the second time length is approximately 22.5 milliseconds long.
- 12. (original) The method as recited in claim 11 wherein a total of the guard time is approximately 8.125 milliseconds.
- 13. (original) A system for wireless communication comprising: a base transceiver station for transmitting a downlink signal burst containing a selected number of bits having a first time length; and

a mobile unit for transmitting an uplink signal burst containing the selected number of bits having a second time length, from the mobile unit to the base transceiver station, and

wherein the first time length is shorter than the second time length thereby providing a guard time.

- 14. (original) The system as recited in claim 13 wherein the guard time is sufficient for the mobile unit to switch from transmit to receive mode.
- 15. (original) The system as recited in claim 13 wherein the base transceiver station comprises a first modulation circuit for modulating the downlink signal burst using a first modulation technique.

- 16. (original) The system as recited in claim 15 wherein the mobile unit comprises a second modulation circuit for modulating the uplink signal burst using a second modulation technique.
- 17. (original) The system as recited in claim 16 wherein the first modulation technique is a higher-order modulation than the second modulation technique.
- 18. (original) The system as recited in claim 17 wherein the first modulation circuit comprises a quadrature amplitude modulator.
- 19. (original) The system as recited in claim 17 wherein the second modulation circuit comprises a phase shift keying modulator.
- 20. (original) The system as recited in claim 17 wherein the first time length is approximately four milliseconds more than the second time length.